

Fig. 1

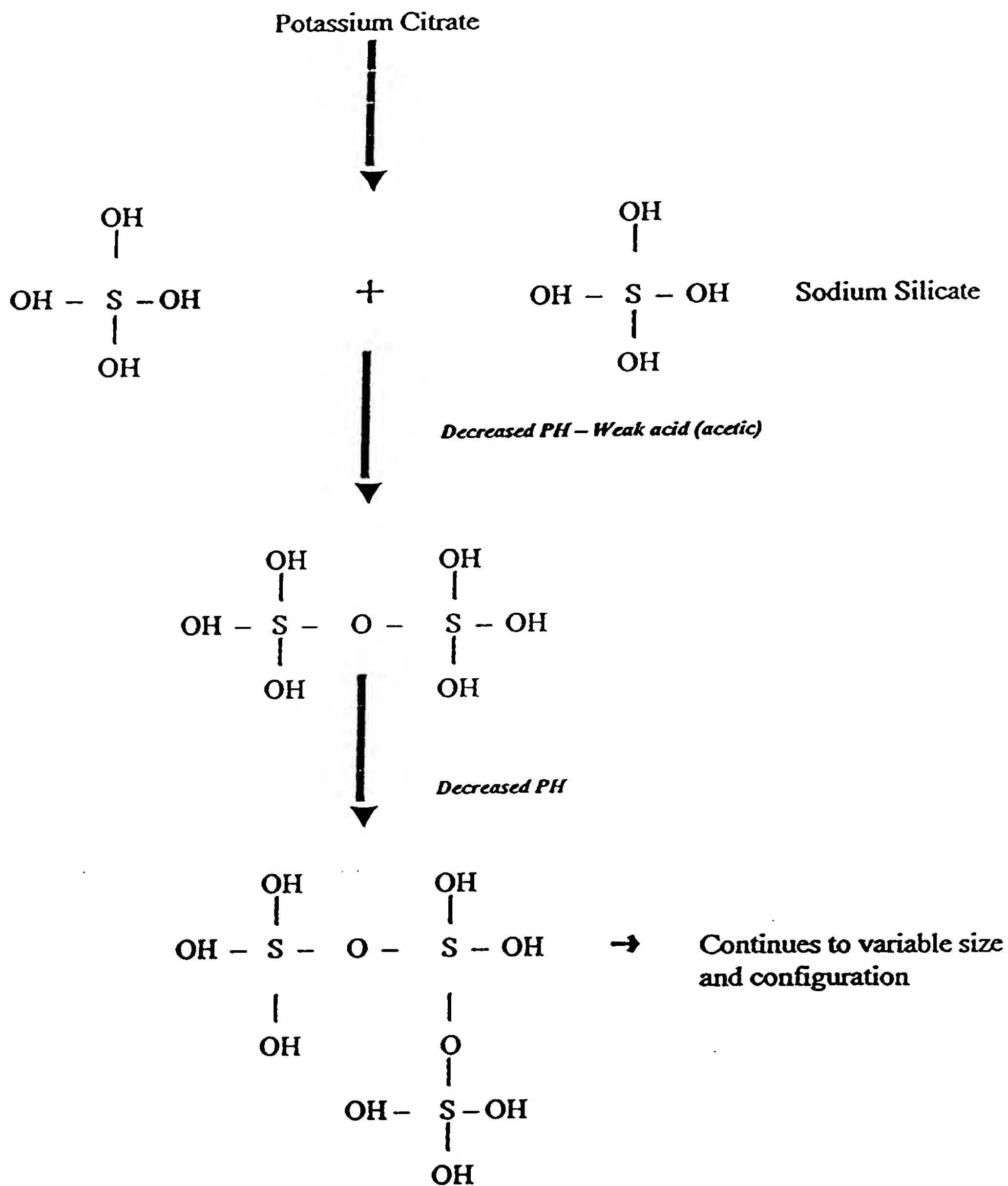


Fig. 2

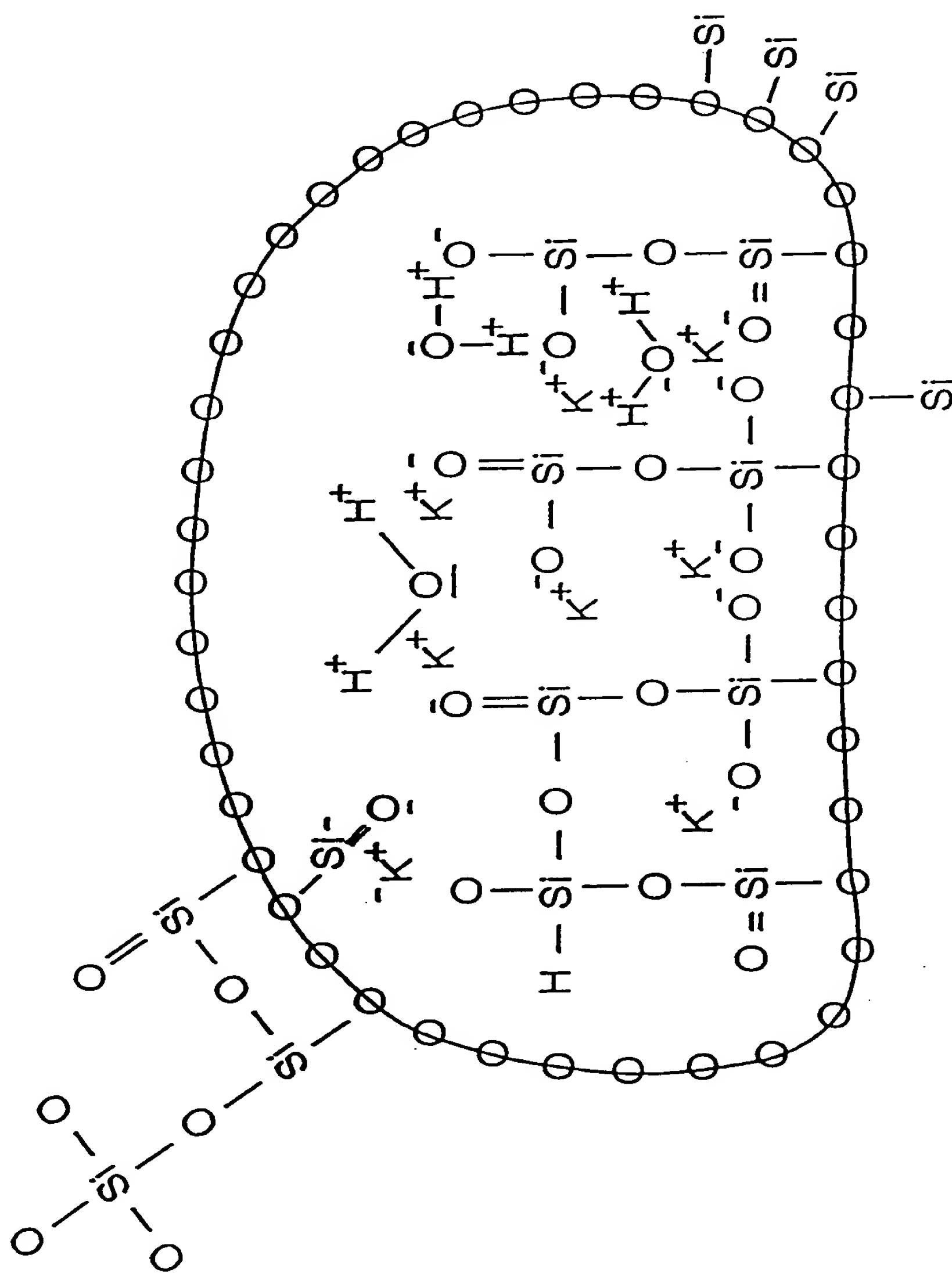


FIG. 3

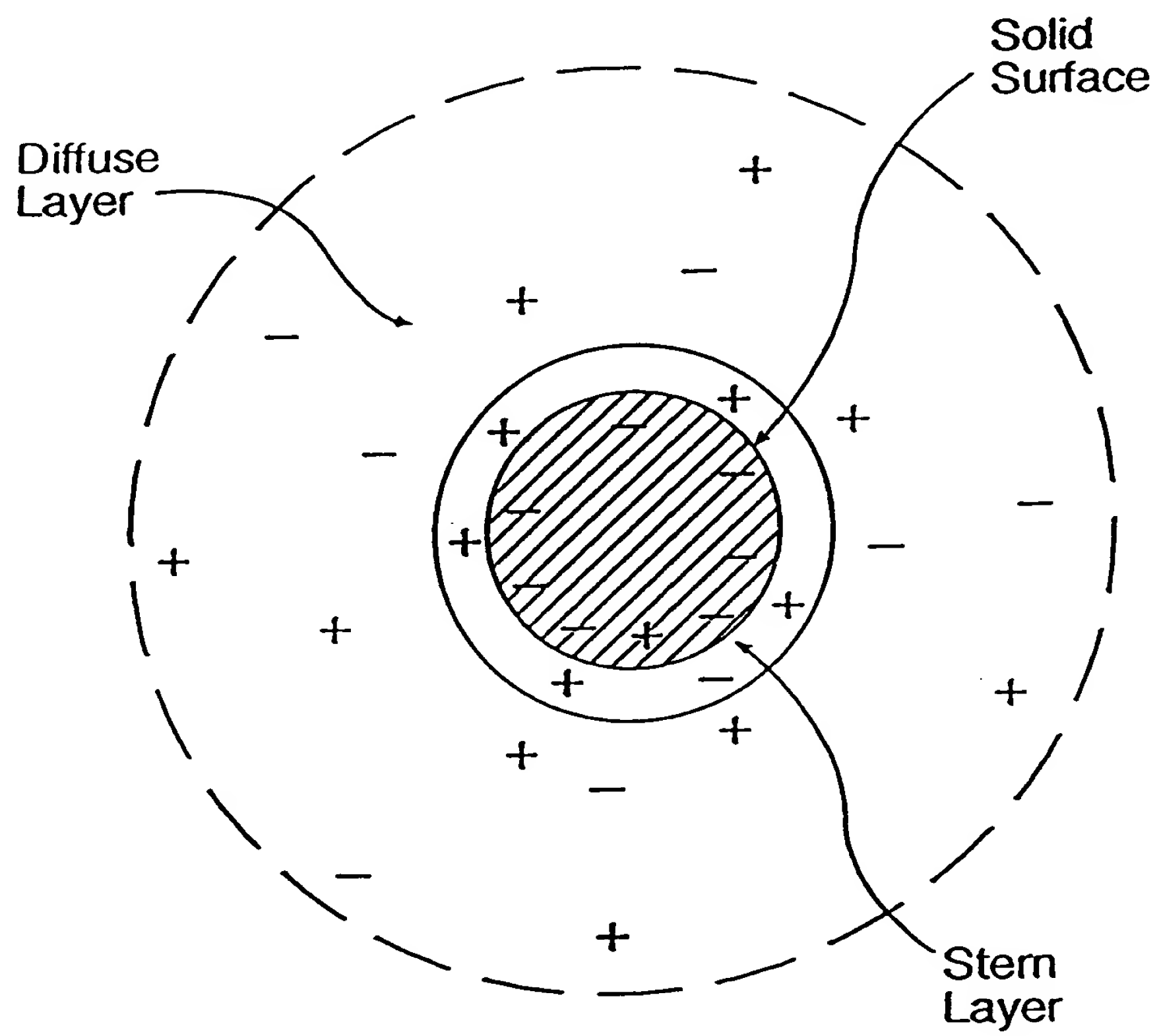


FIG. 4

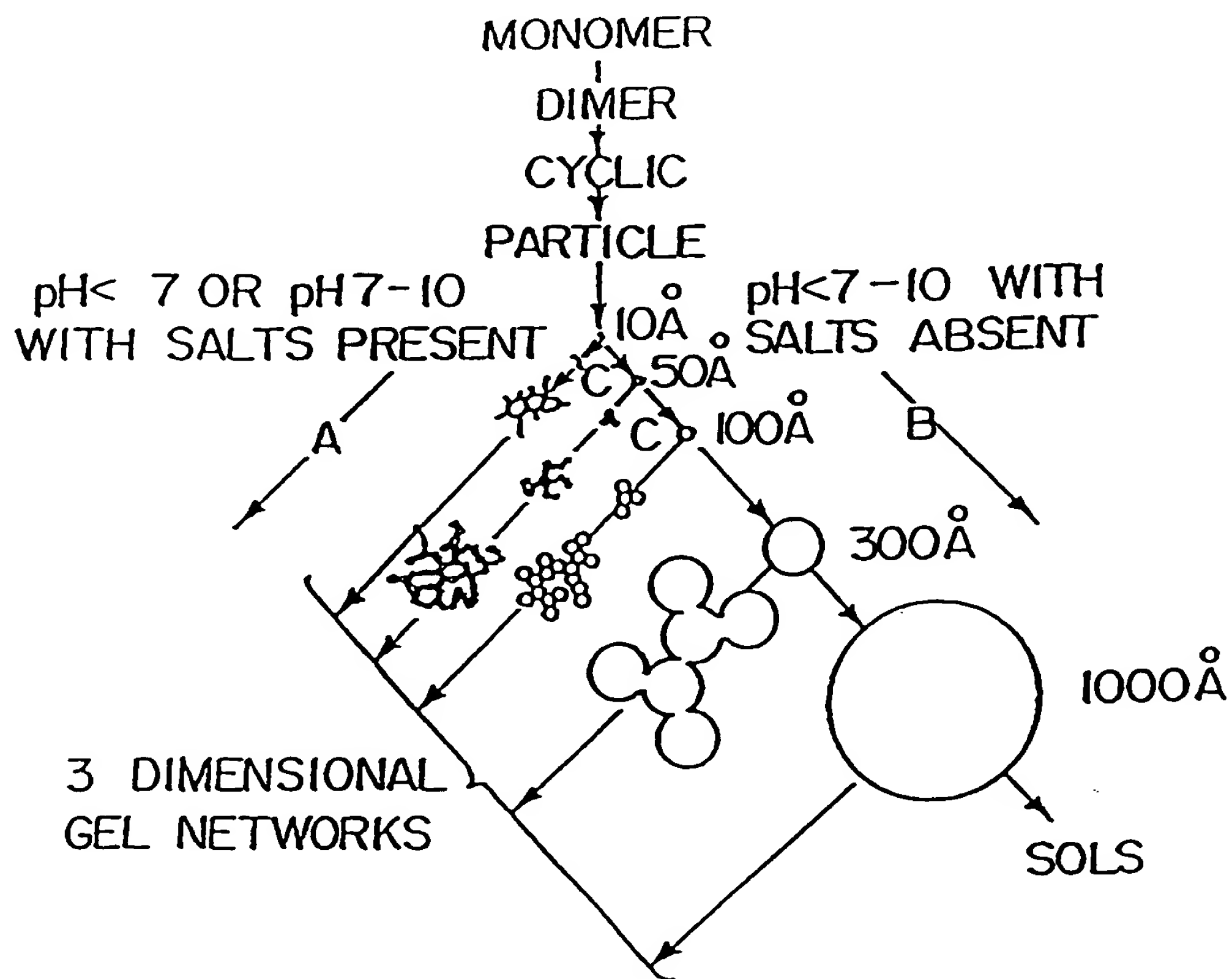


FIG. 5

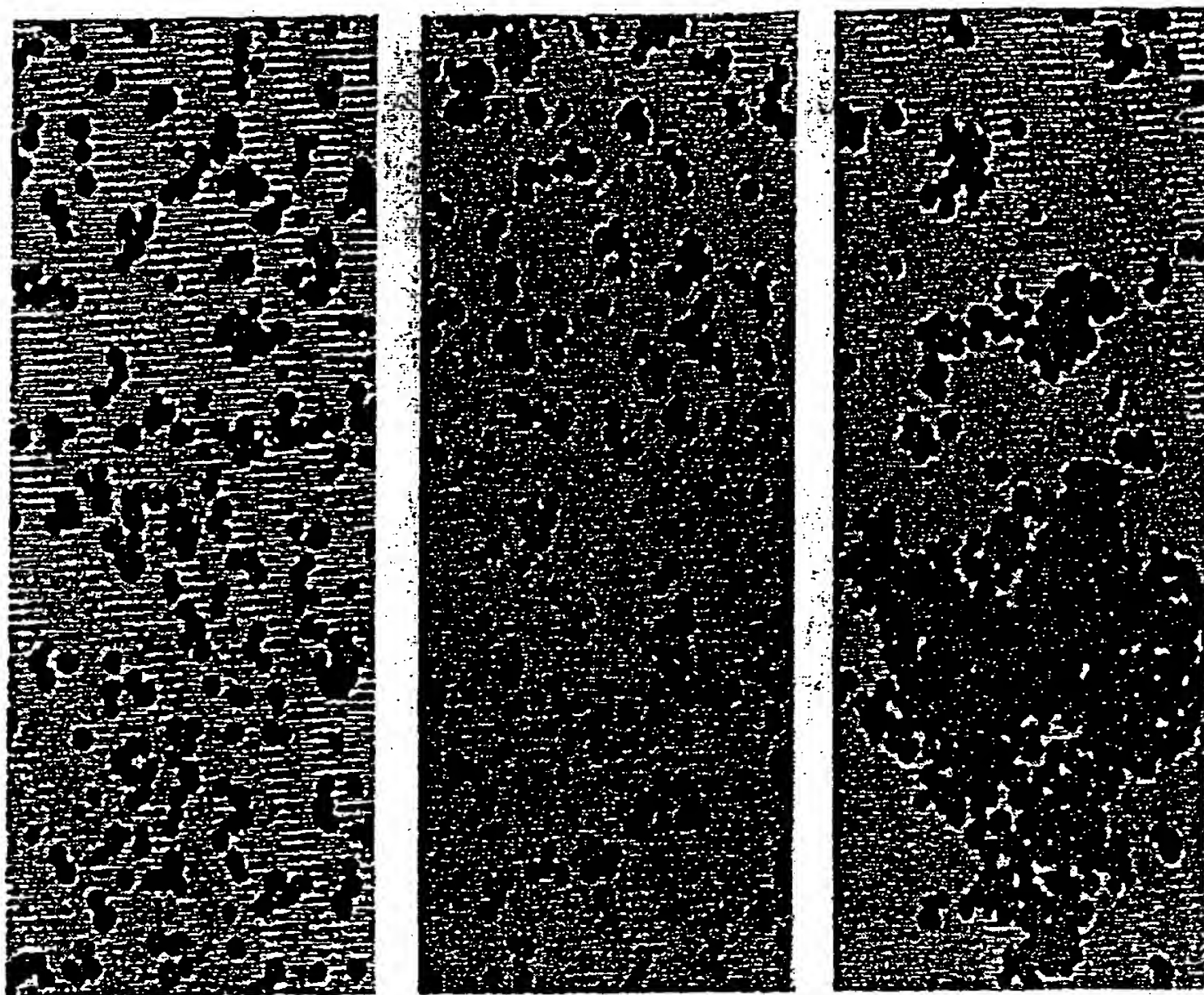
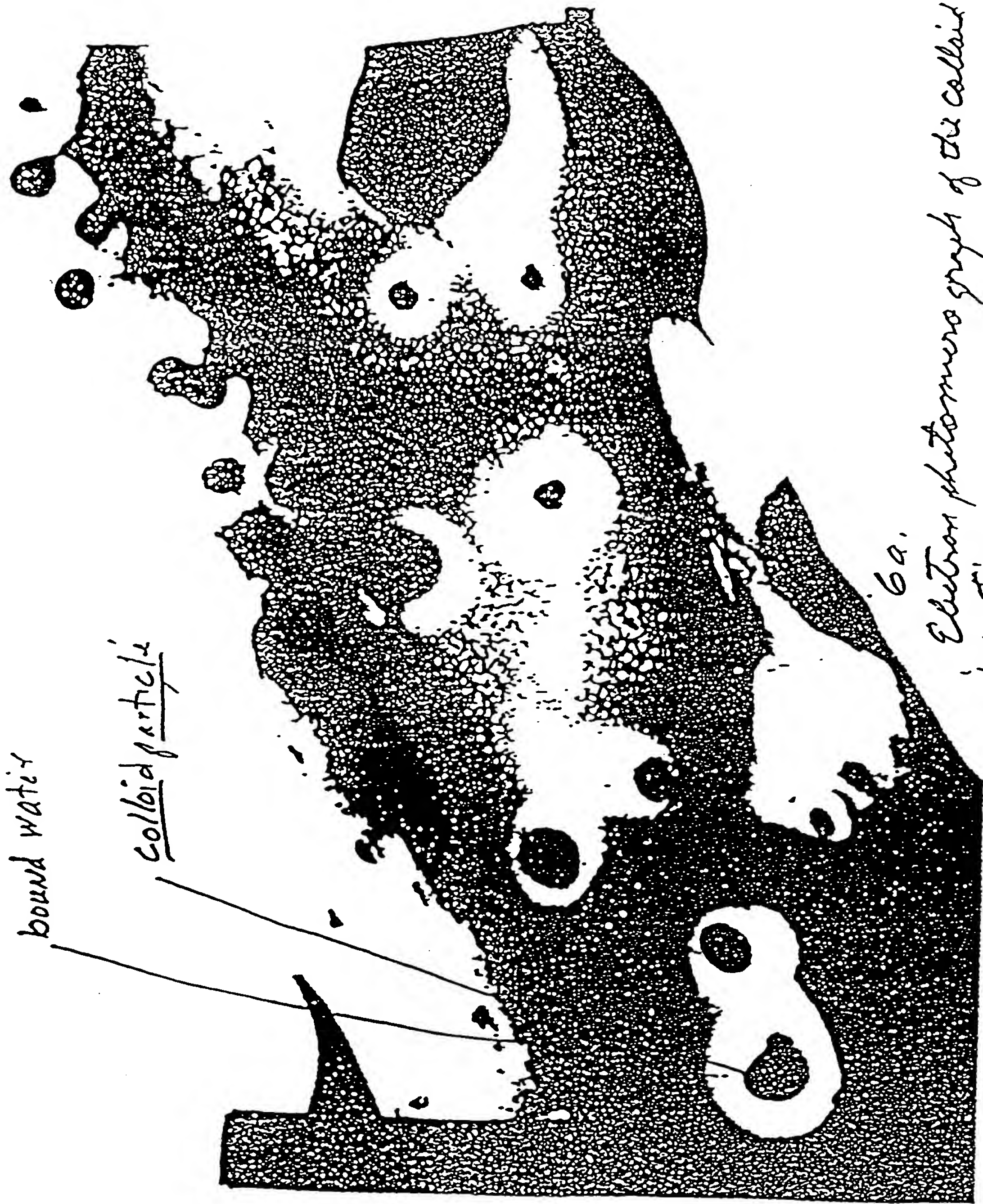


FIG. 26.—Electron micrographs showing stages of aggregation of 35 millimicron silica particles: *left*, colloidal aggregates; *center*, aggregates approaching colloidal size; *right*, supercolloidal aggregates or precipitate.

FIG. 6



bound water

colloid particle

6a.

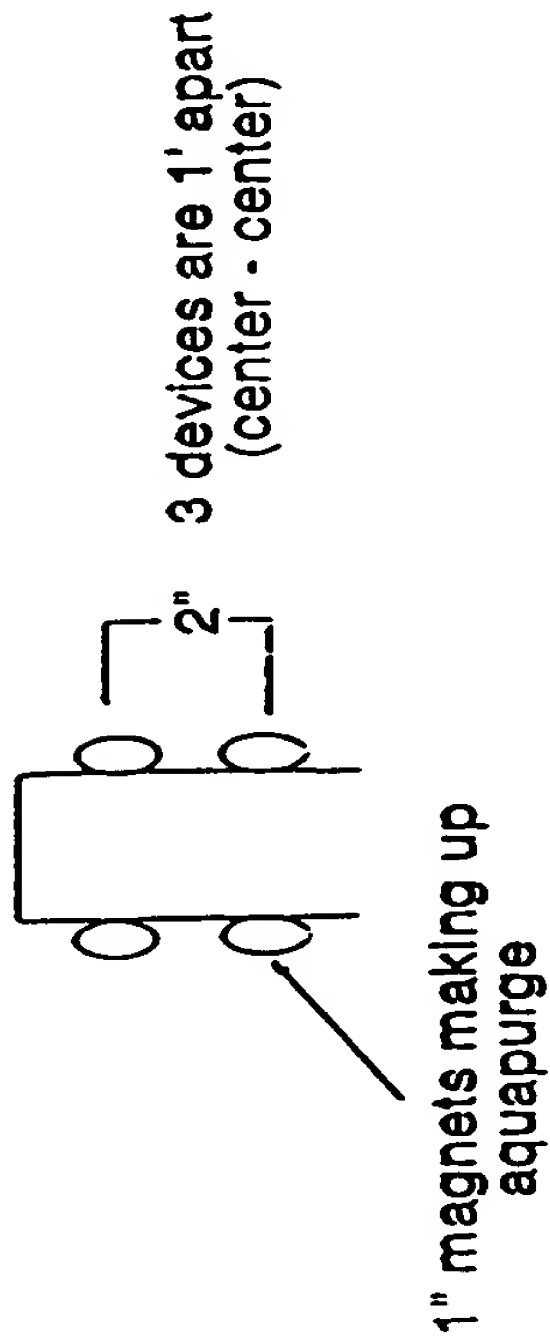
Electron photomicrograph of the colloid of the
invention.

5a

[illegible]

FIG. 7

SECTION OF GENERATOR



CUT-AWAY OF PIPE GENERATOR IN A LONGITUDINAL DIRECTION

(A)

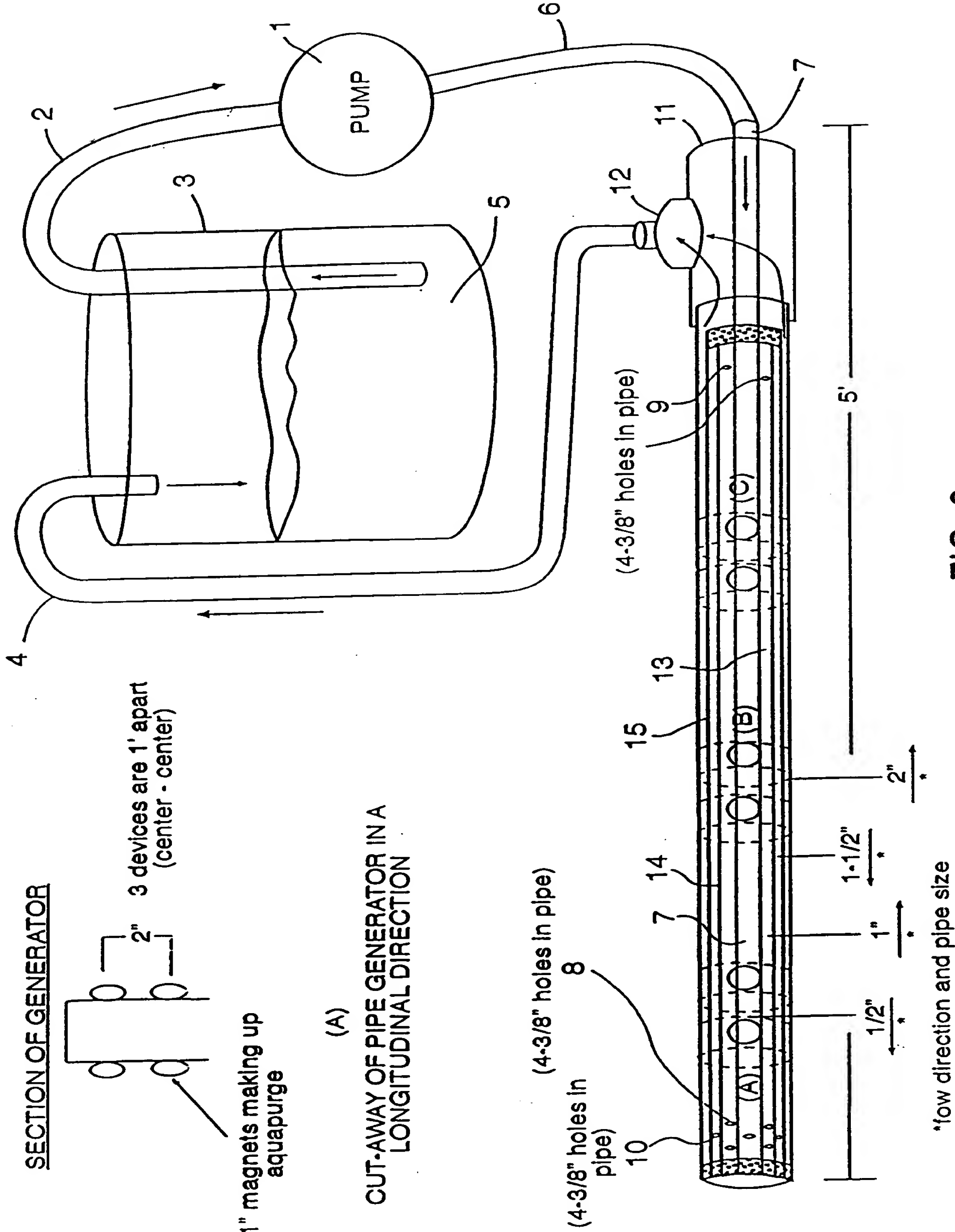
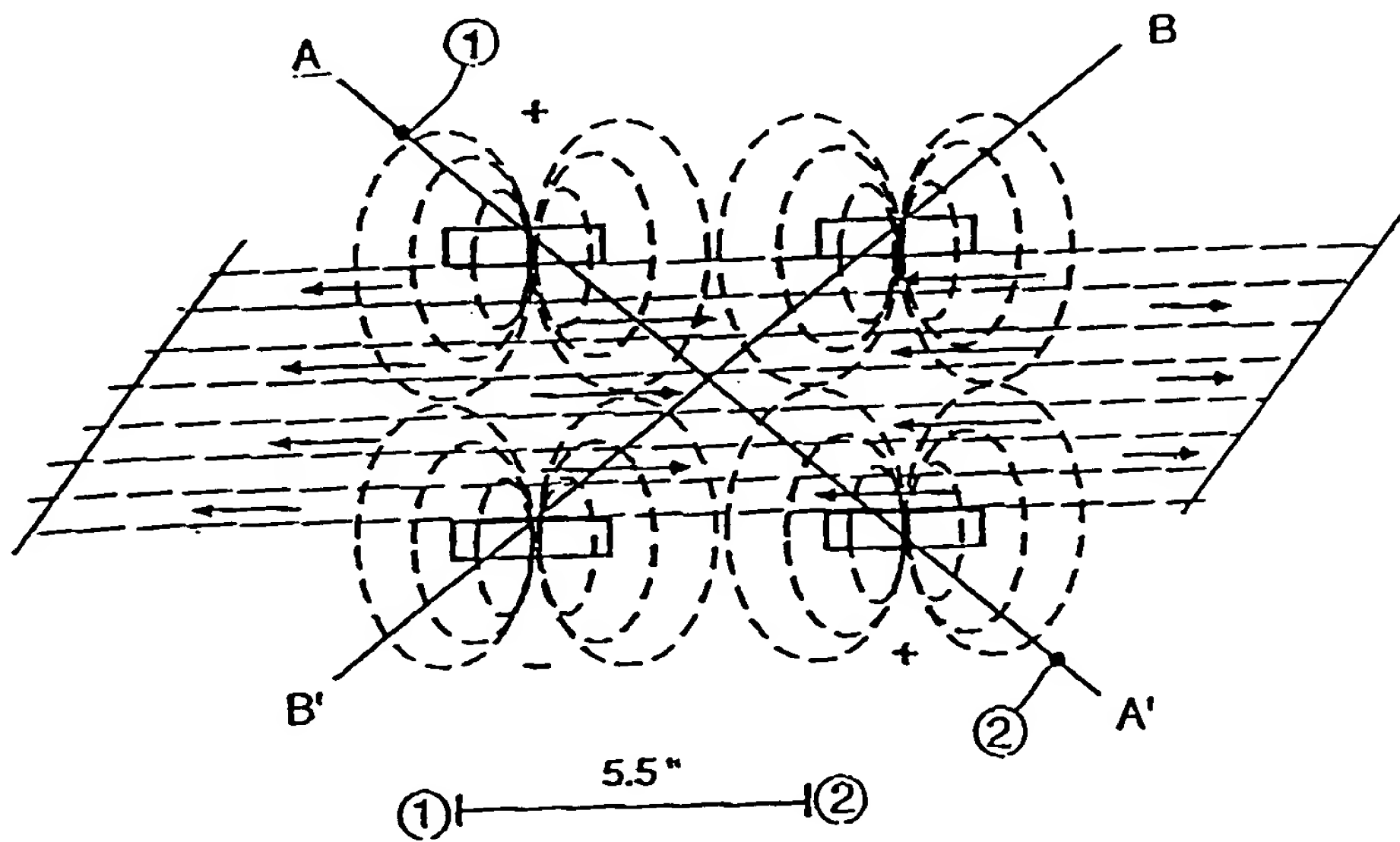


FIG. 8

Cross sectional view of counter current generator of the invention
with lines A-A' and B-B' noted for measurement purposes.



Plot of Gradients in "z" axis

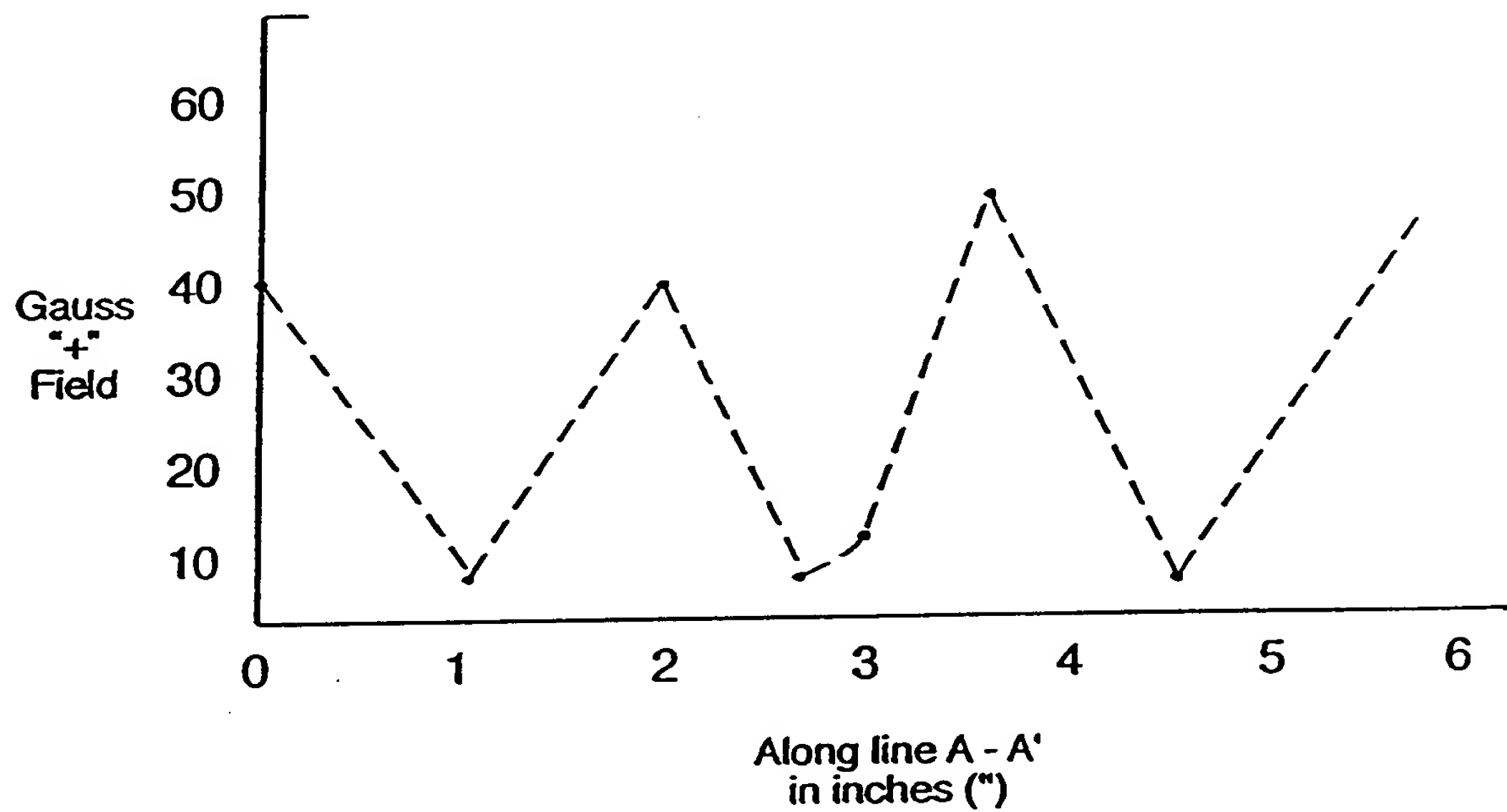


FIG. 9

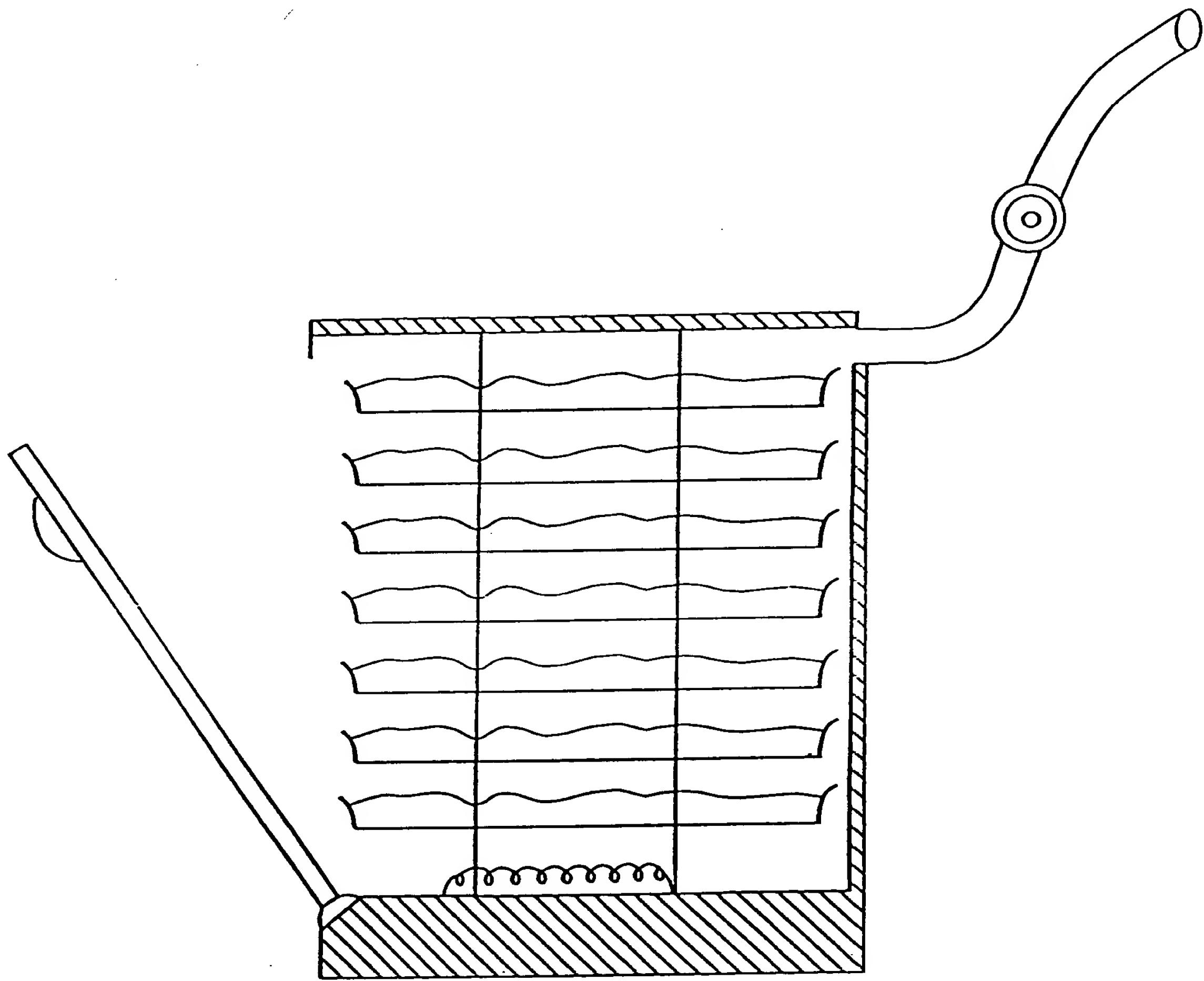


FIG. 10

FIG. 11

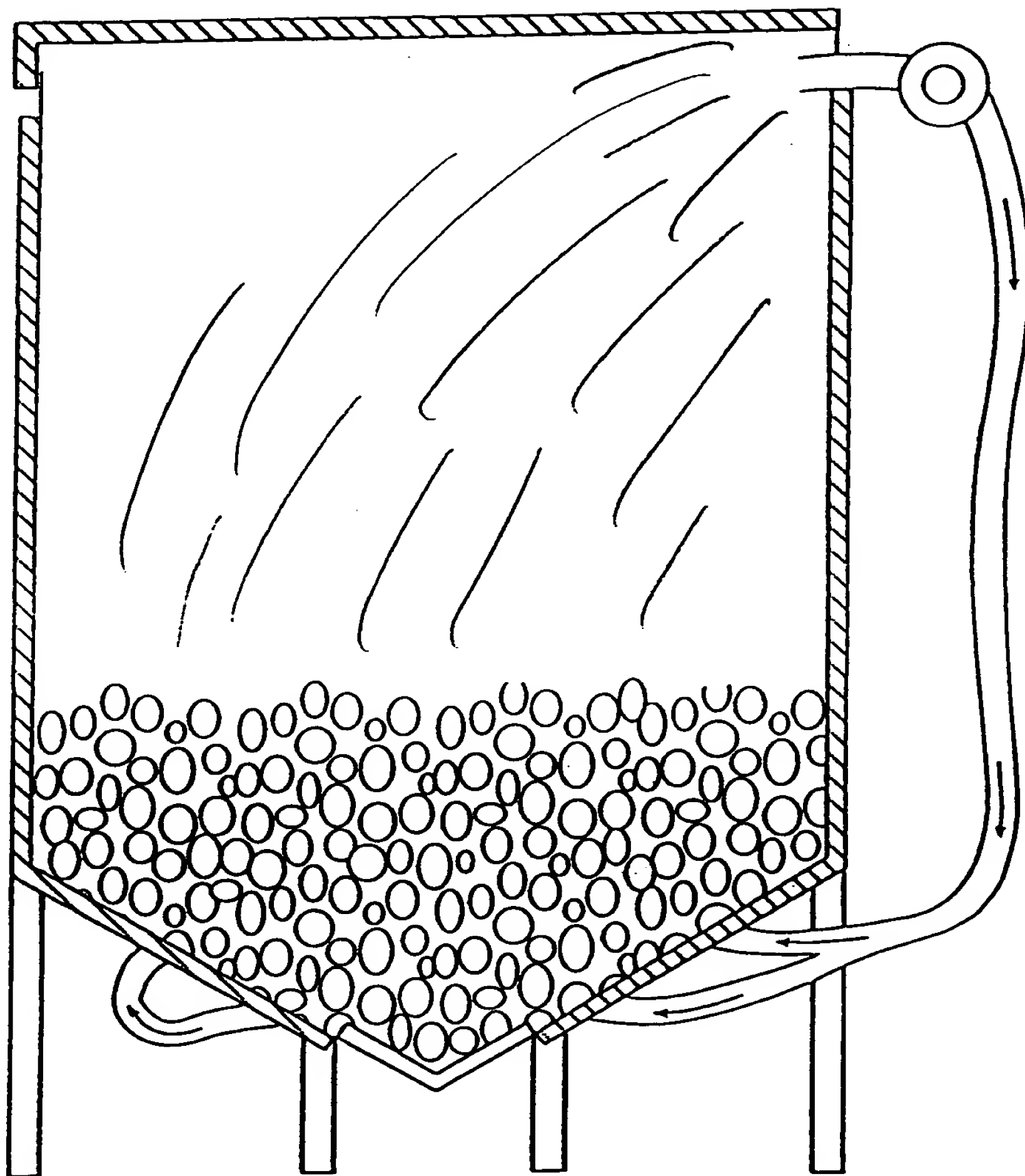


FIG. 11

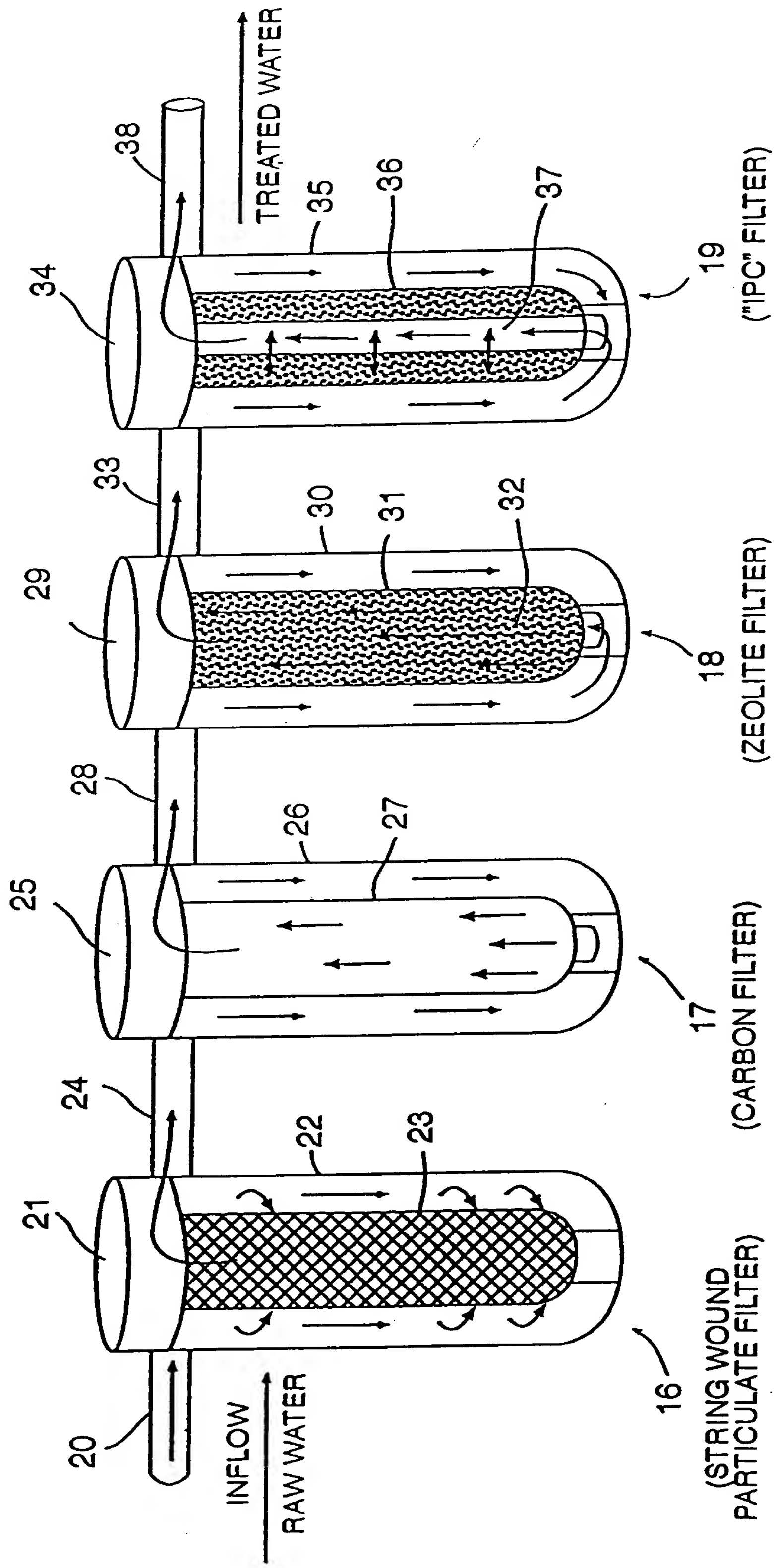


FIG. 12

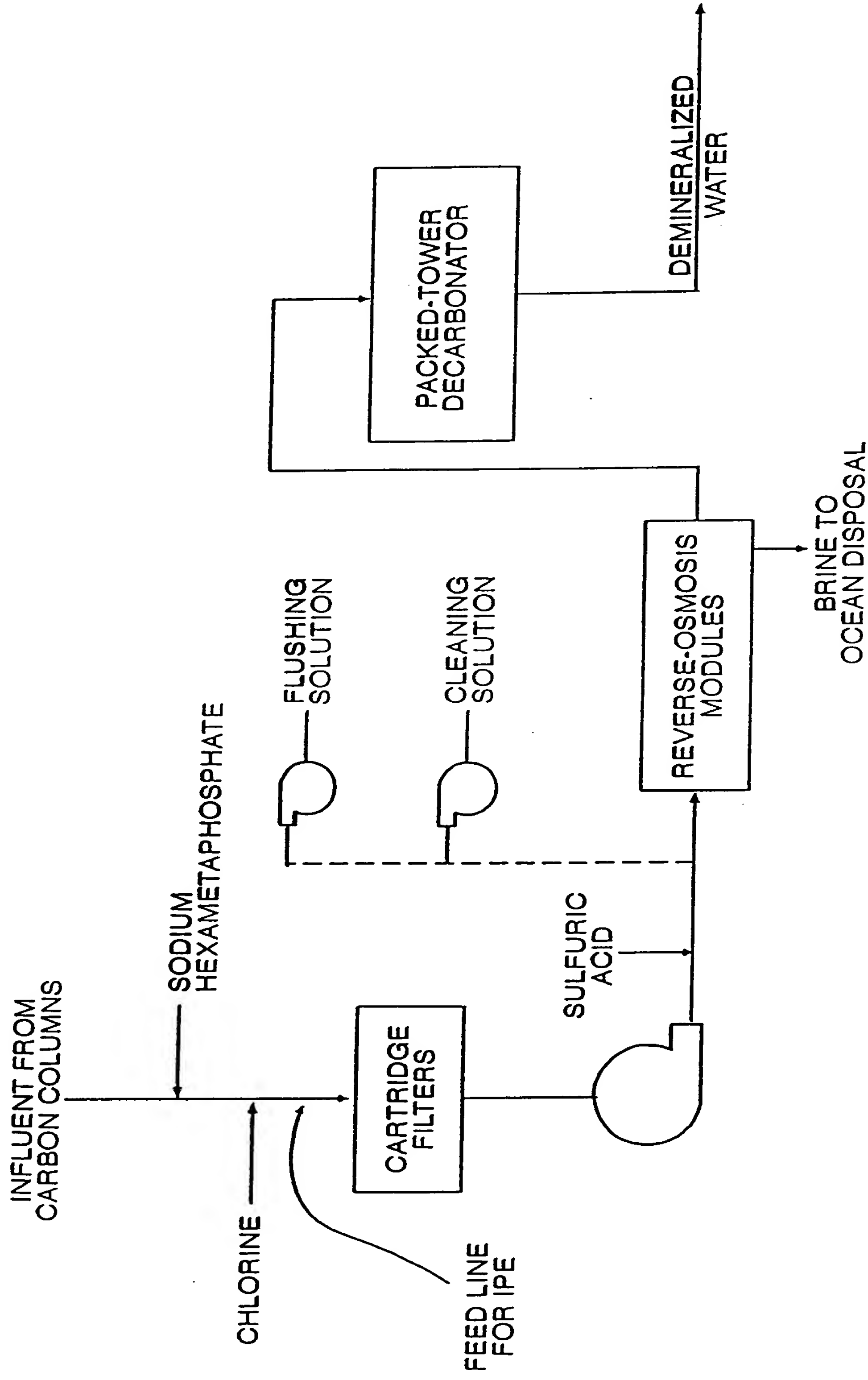


FIG. 20 13

HOME WATER SOFTENER, WITH AUTOMATIC CONTROLLER FOR REGENERATION AND SERVICE

IPC CONVERSION

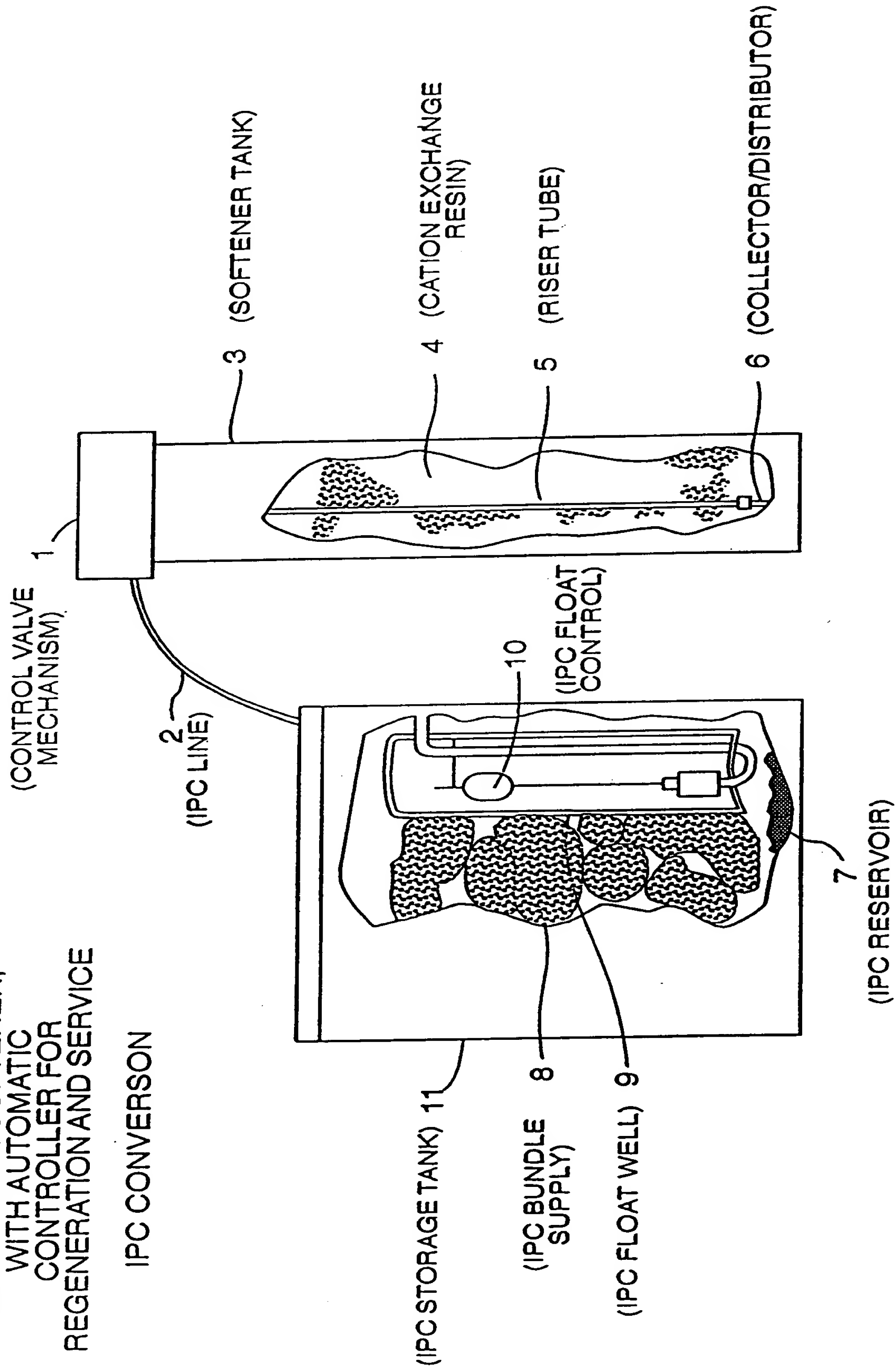


FIG. 14

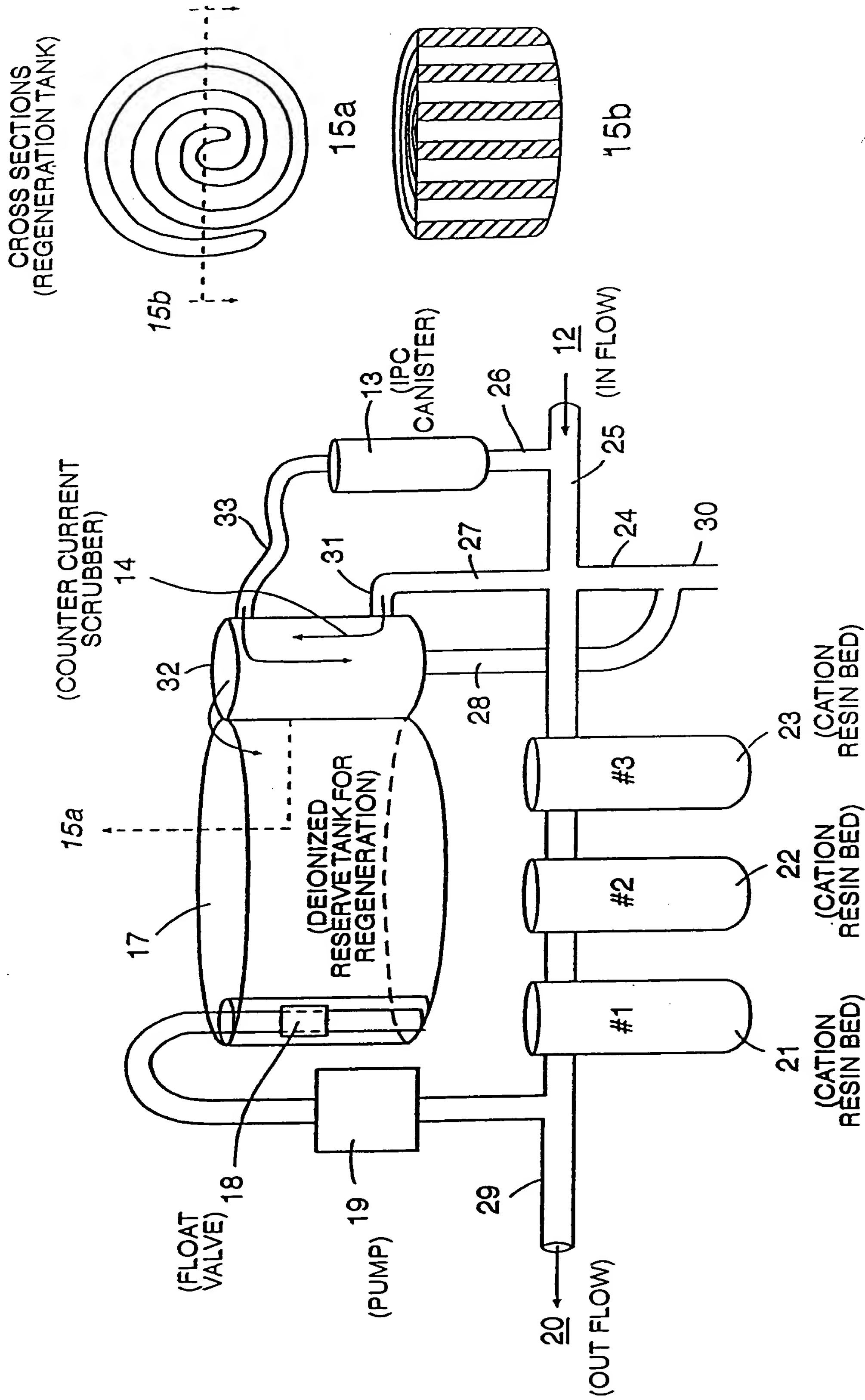


FIG. 15

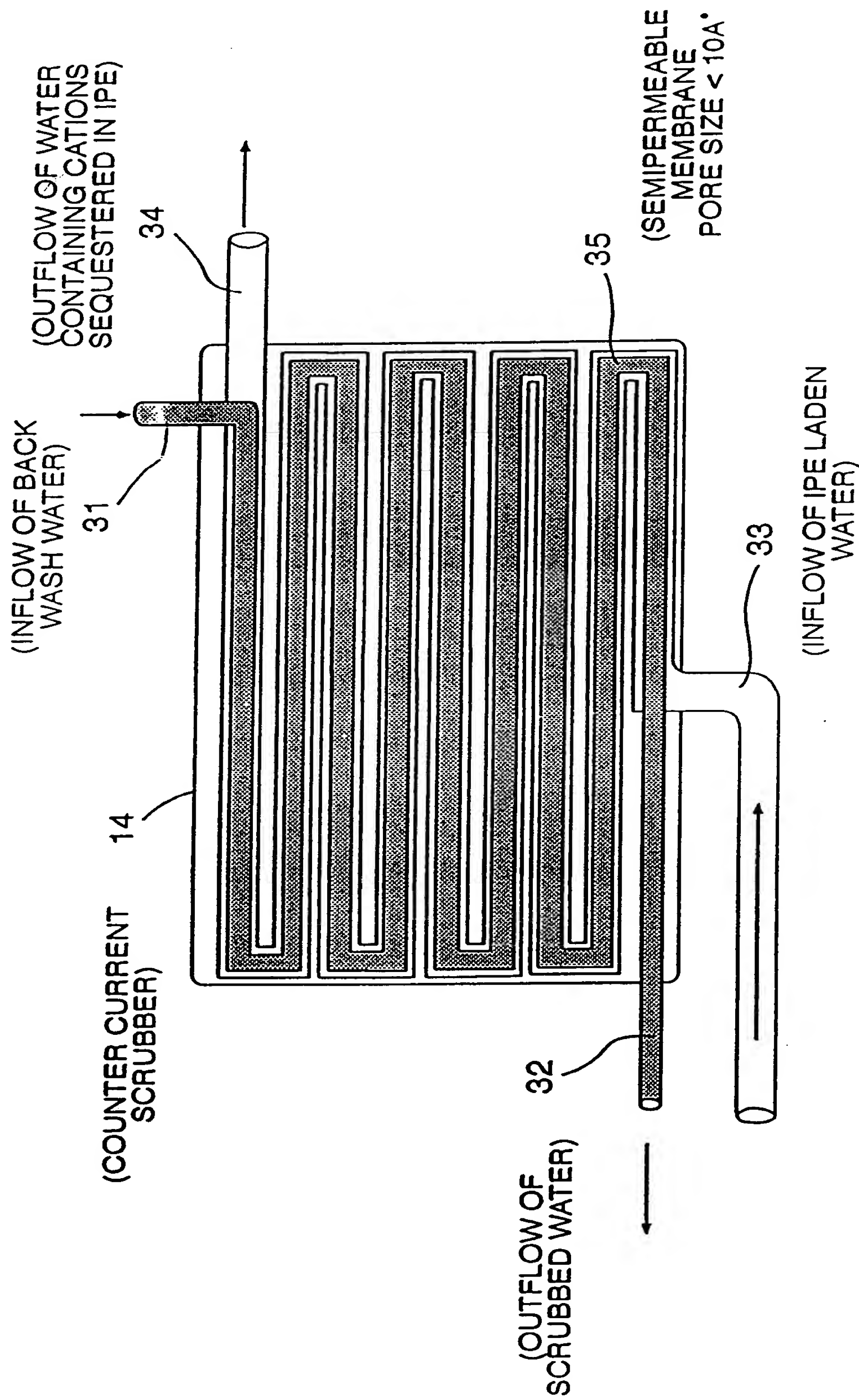


FIG. 16

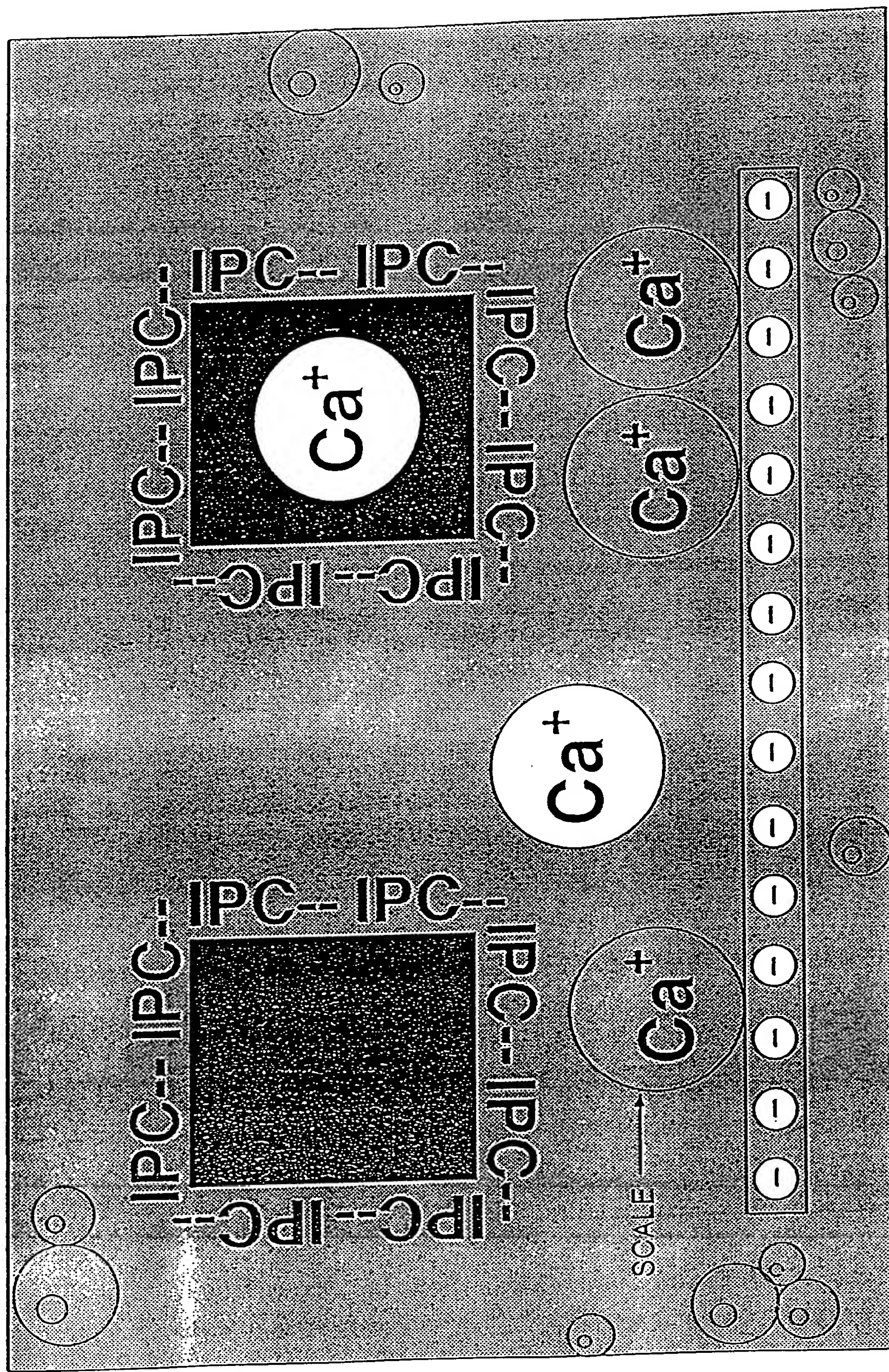


FIG. 17

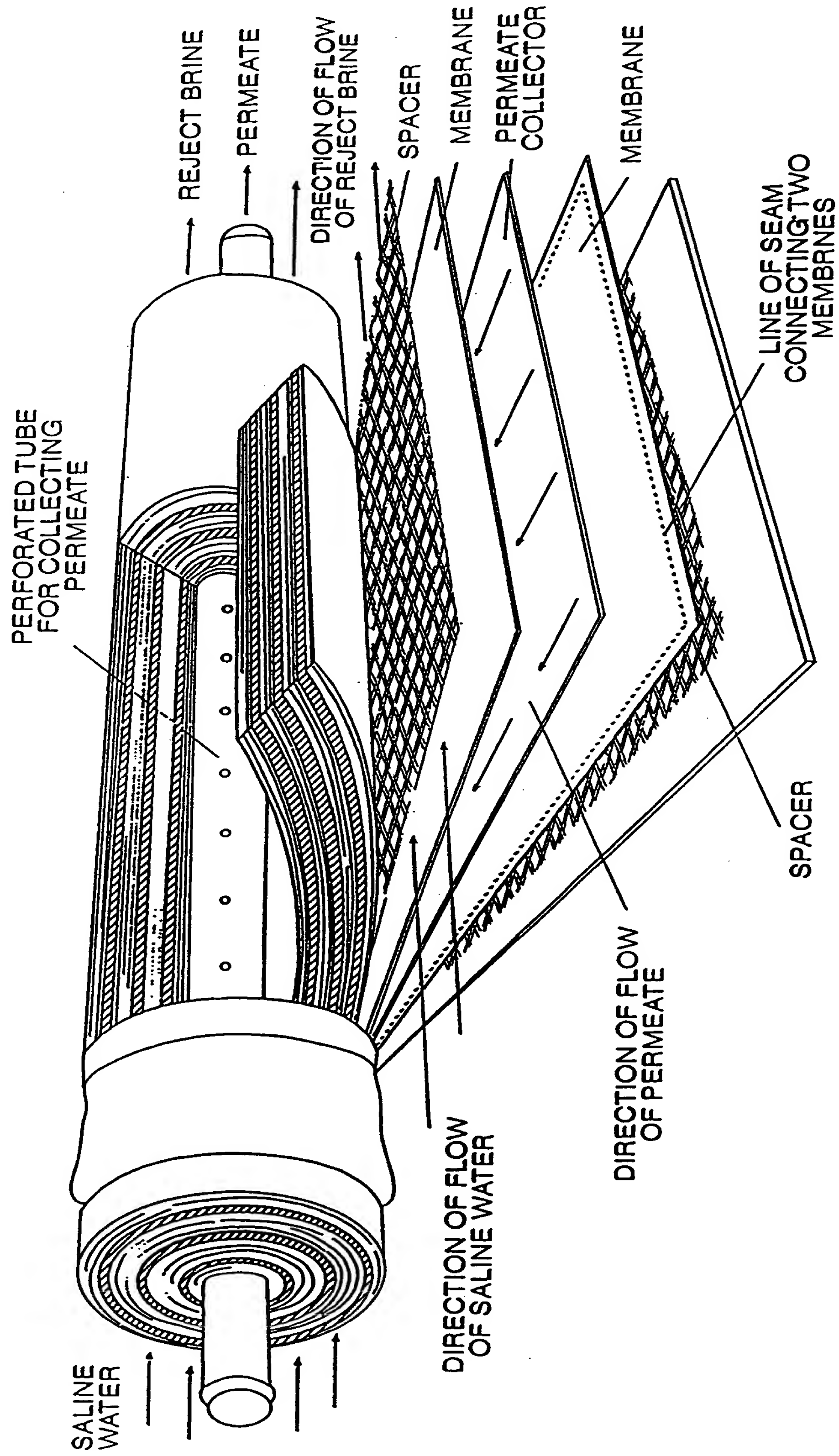


FIG. 18

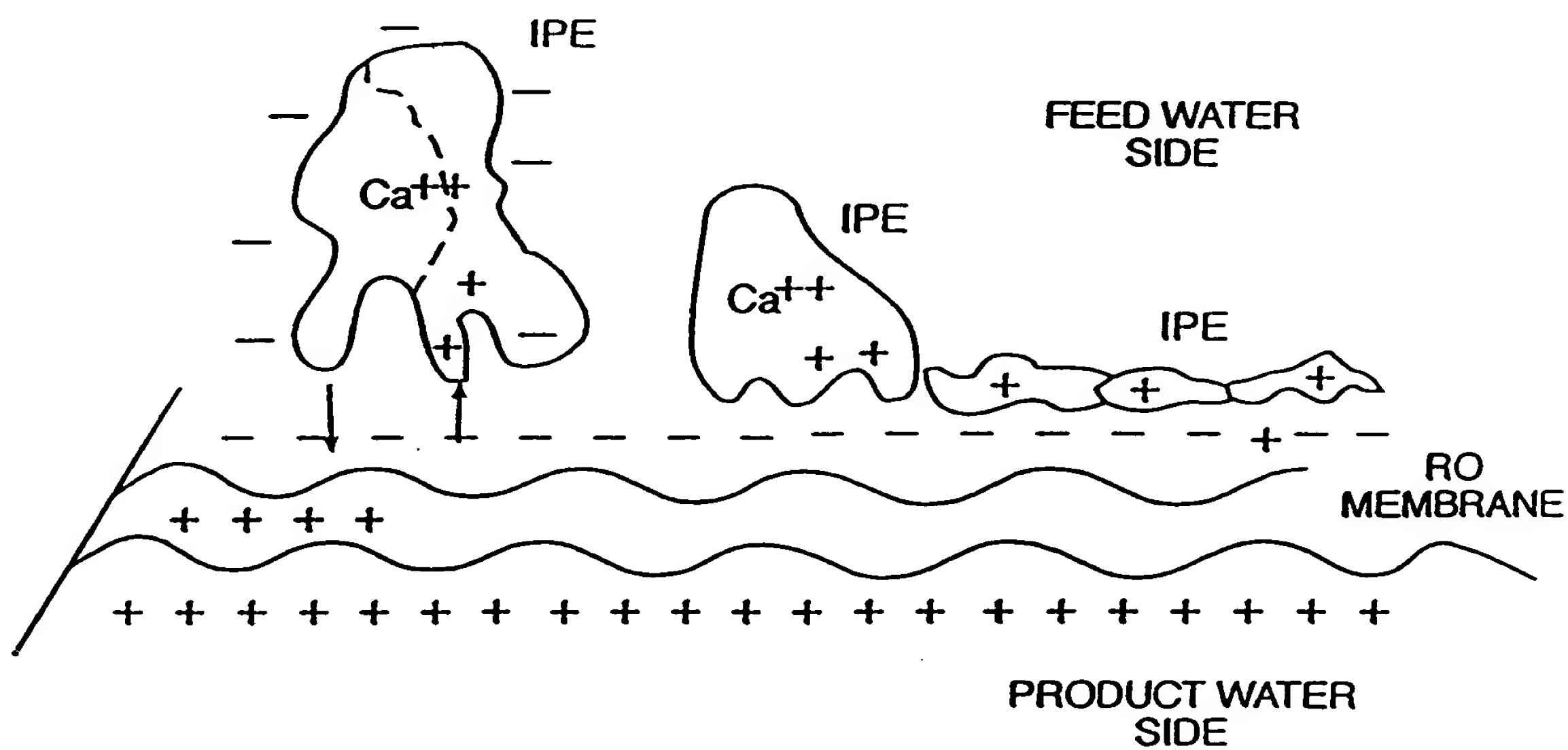
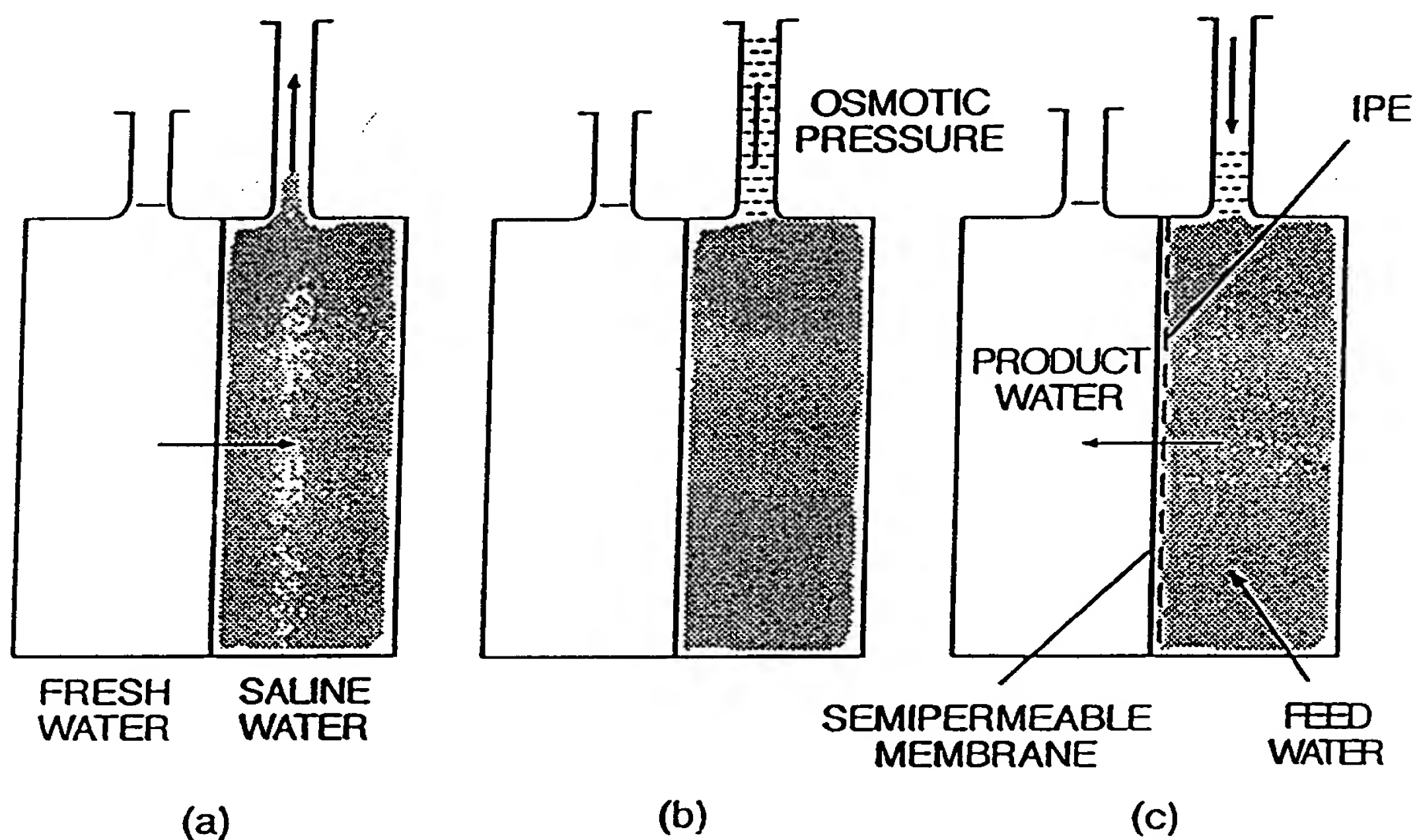


FIG. 19

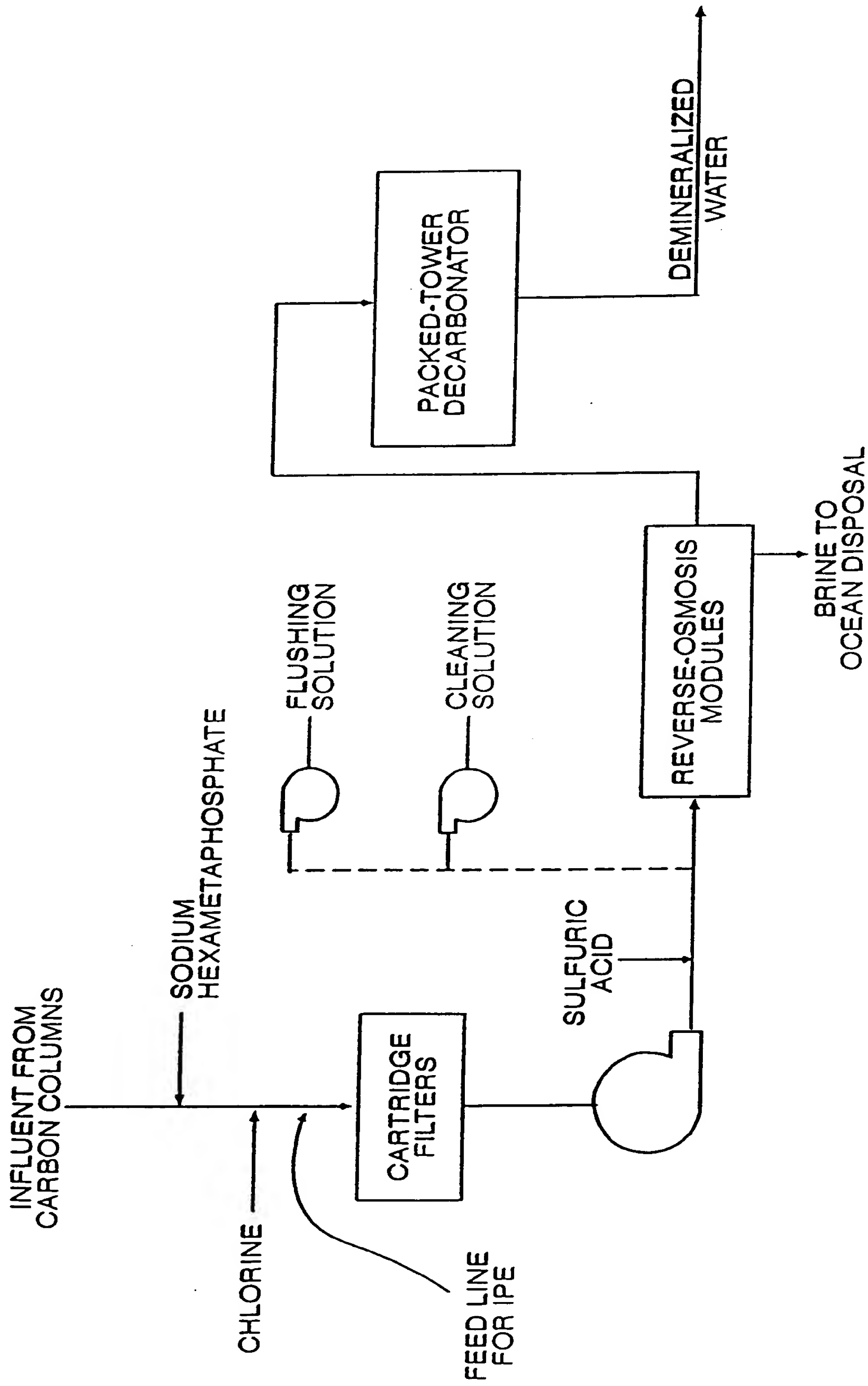


FIG. 20